

C 61057

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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION; MAY 2019

Education

Optional Course II

EDU 9.10—PEDAGOGIC PRACTICE IN MATHEMATICS

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 2 marks.*

1. What are the pre-requisites to teach the 'area of a trapezium' ?
2. What is a graphic organizer ?
3. Write any *two* reference books for the teaching of mathematics at secondary level.
4. What are the demerits of a textbook ?
5. What do you mean by continuous and comprehensive evaluation ?
6. What are the purposes of content analysis ?
7. What are the features of constructivism ?
8. Write any *two* methods to solve 'simultaneous equations.'
9. What are the merits of checklist ?
10. Give two follow-up activities for the topic 'arithmetic progression'.

(10 × 2 = 20 marks)

**Part B**

*Answer any ten questions.*

*Each question carries 4 marks.*

11. What are the characteristics of unit plan ?
12. What are the fundamental elements of a teaching model ?
13. How will you introduce 'average' to the students ?
14. What are the disadvantages of a workbook ?

**Turn over**

15. How can a mathematics teacher promote the effective use of mathematics library among students?
16. Explain briefly the informal assessment strategies for mathematics learning.
17. What are the educational implications of Piaget's theory of cognitive development?
18. Write a suitable learning activity to teach the topic 'regular polygons'.
19. Write all the curricular objectives of the unit 'ratio' of std.VIII.
20. What are the importances of improvised aids?
21. How will you teach the students 'all angles of an equilateral triangle is 60'?
22. What are the characteristics of a good lesson plan?

(10 × 4 = 40 marks)

### Part C

*Answer any two questions.*

*Each question carries 10 marks.*

23. Select any of the topic from secondary school mathematics textbook and prepare a lesson based on Concept Attainment Model.
24. What are the different stages of planning instruction?
25. What are the different steps involved in the construction of achievement test in mathematics?

(2 × 10 = 20 marks)